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# NOTICE OF ALLOWANCE AND FEE(S) DUE

10/06/2008

DARBY & DARBY P.C. P.O. BOX 770 Church Street Station New York, NY 10008-0770 EXAMINER

PATEL, DHARTI HARIDAS

ART UNIT PAPER NUMBER

2836

DATE MAILED: 10/06/2008

| APP | LICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----|--------------|-------------|----------------------|---------------------|------------------|
|     | 10/599,585   | 10/02/2006  | Berthold Gauxmann    | 20798/0204627-US0   | 1137             |

TITLE OF INVENTION: METHOD AND CIRCUIT ARRANGEMENT FOR OPERATING A SOLENOID ACTUATOR

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1510        | \$300               | \$0                  | \$1810           | 01/06/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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| CURRENT CORRESPONDE   | NCE ADDRESS (Note: Use B)  | ock 1 for any change of address)   |   | Fee(s  | s) Transmittal. This  | s certif<br>I paper                           | icate cannot be used fo  | domestic mailings of the<br>or any other accompanying<br>at or formal drawing, must   |
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| DARBY & DA<br>P.O. BOX 770<br>Church Street Sta   |  |  |   | I here<br>State<br>addre<br>trans                          | eby certify that this Postal Service we seed to the Mail mitted to the USPT                               | is Fee(strith suf<br>Stop<br>TO (57           | s) Transmittal is being<br>ficient postage for first<br>ISSUE FEE address<br>1) 273-2885, on the da                    | deposited with the United class mail in an envelope above, or being facsimile te indicated below.   |
| New York, NY 1  | 0008-0770  |  |   |  |   |   |  | (Depositor's name)  |
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|   |  |  | •   |  |   |   |  | (Date)  |
| APPLICATION NO.   | FILING DATE  |  | FIRST NAMED INVEN   | TOR  |   | ATTO  | RNEY DOCKET NO.  | CONFIRMATION NO.  |
| 10/599,585  | 10/02/2006   |  | Berthold Gauxman  | nn   |   | 207   | 98/0204627-US0   | 1137  |
|   |  | UIT ARRANGEMENT I  |   |  | PREV. PAID ISSUE  |   | TOTAL FEE(S) DUE   | DATE DUE  |
| APPLN. TYPE   | SMALL ENTITY   | ISSUE FEE DUE  | PUBLICATION FEE I   | JUE  | ·   | SPEE  | \$1810   | 01/06/2009  |
| nonprovisional  | NO   | \$1510   | \$300   |  | \$0   |   | \$1910   | 01/06/2009  |
| EXAM  |  | ART UNIT   | CLASS-SUBCLASS  | S  |   |   | •  |   |
| PATEL, DHAR   |  | 2836   | 361-147000  |  |   |   |  |   |
| CFR 1.363).  Change of corresponders form PTO/SE  "Fee Address" indirection PTO/SB/47; Rev 03-0 Number is required. | Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome |  |   | up to<br>rnativ<br>single<br>y or a<br>t attor<br>ill be p | firm (having as a<br>gent) and the name<br>neys or agents. If a<br>printed.                               | t attorr                                      | era 2  |   |
| . ASSIGNEE NAME A   | ND RESIDENCE DATA  | A TO BE PRINTED ON   | THE PATENT (print   | or typ   | e)  | •_ •_   |  | annuant has been filed for  |
| PLEASE NOTE: Unl recordation as set forth   | ess an assignee is ident<br>h in 37 CFR 3.11. Com  | ified below, no assignee pletion of this form is NO  | T a substitute for filin  | ne pa<br>gan a   | ssignment.  | ee is ic                                      | ientified below, the do  | cument has been filed for   |
| (A) NAME OF ASSIC   | GNEE   |  | (B) RESIDENCE: (  | CITY   | and STATE OR C  | TOUN  | 'RY)   |   |
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| Please check the appropri   | iate assignee category or  | categories (will not be pr   | rinted on the patent):  |  | Individual Co   | rporati                                       | on or other private gro  | up entity Government  |
| a. The following fee(s)   | are submitted:   | 41   | b. Payment of Fee(s):  A check is enclo   | -  | se first reapply an   | ıy prev                                       | iously paid issue fee s  | hown above)   |
| ☐ Issue Fee☐ Publication Fee (N   | o small entity discount  | permitted)   | Payment by cred   |  | i. Form PTO-2038  | is atta                                       | ched.  |   |
|   | of Copies  |  | The Director is h overpayment, to   | ereby<br>Depos   | authorized to char<br>sit Account Number  | ge the<br>er                                  | required fee(s), any def<br>(enclose ar  | iciency, or credit any extra copy of this form).  |
| a. Applicant claims   | tus (from status indicate<br>s SMALL ENTITY state  | us. See 37 CFR 1.27.   | ••  | -  |   |   | TITY status. See 37 CF   |   |
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| Authorized Signature  |  |  |   |  | Date  |   |  |   |
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| This collection of inform<br>an application. Confident<br>submitting the completed<br>his form and/or suggesti      | ation is required by 37 C<br>tiality is governed by 35<br>d application form to the<br>lons for reducing this bu   | CFR 1.311. The information U.S.C. 122 and 37 CFR USPTO. Time will vary urden, should be sent to the NOT SEND FEES OR | on is required to obtai<br>1.14. This collection<br>depending upon the<br>e Chief Information ( | n or re<br>is esti<br>indiv<br>Office                      | etain a benefit by t<br>imated to take 12 r<br>idual case. Any co<br>r, U.S. Patent and<br>D.THIS ADDRESS | he pub<br>minutes<br>mmen<br>Trader<br>S. SEN | lic which is to file (and s to complete, including ts on the amount of tin nark Office, U.S. Depa D TO: Commissioner f | by the USPTO to process)<br>g gathering, preparing, and<br>ne you require to complete<br>rtment of Commerce, P.O.<br>or Patents, P.O. Box 1450, |

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| APPLICATION NO. FILING DATE     |            | LING DATE  | FIRST NAMED INVENTOR         | ATTORNEY DOCKET NO.             | CONFIRMATION NO. |
|---------------------------------|------------|------------|------------------------------|---------------------------------|------------------|
| 10/599,585                      | 10/02/2006 |            | 10/02/2006 Berthold Gauxmann |                                 | 1137             |
| 7278                            | 7590       | 10/06/2008 | •                            | EXAM                            | INER             |
| DARBY & D                       | ARBY P.0   | <b>S</b> . |                              | PATEL, DHAF                     | TI HARIDAS       |
| P.O. BOX 770                    |            |            |                              | ART UNIT                        | PAPER NUMBER     |
| Church Street S<br>New York, NY |            | 70         |                              | 2836<br>DATE MAILED: 10/06/2000 | 8                |

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 309 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 309 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

|   | Application No.   | Applicant(s)   |   |
|---|---|--|---|
|   | 10/599,585  | GAUXMANN ET AL.  |   |
| Notice of Allowability  | Examiner  | Art Unit   |   |
|   | DHARTI H. PATEL   | 2836   |   |
| The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313  | (OR REMAINS) CLOSED in<br>or other appropriate communication is se  | this application. If not included inication will be mailed in due course. THIS                                   |   |
| 1. This communication is responsive to 10/02/2006.  |   |  |   |
| 2. X The allowed claim(s) is/are 21-41.   |   |  |   |
| <ul> <li>3.  Acknowledgment is made of a claim for foreign priority unanal of the priority documents have a compared to the priority documents have a compa</li></ul> | been received. been received in Application   | n No   |   |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.   |   | a reply complying with the requirements  |   |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give  |   |  |   |
| <ul> <li>5. CORRECTED DRAWINGS ( as "replacement sheets") mus (a) including changes required by the Notice of Draftspers         <ul> <li>1) hereto or 2)</li> <li>1 to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deposit of the depos</li></ul></li></ul>  | on's Patent Drawing Review  Amendment / Comment or  SA(c)) should be written on the header according to 37 CF  sit of BIOLOGICAL MATI | in the Office action of ne drawings in the front (not the back) of R 1.121(d). ERIAL must be submitted. Note the |   |
| <ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 06/26/2007</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>  | 6. ☐ Interview S<br>Paper No./<br>7. ☐ Examiner's   | formal Patent Application  ummary (PTO-413),  Mail Date Amendment/Comment  Statement of Reasons for Allowance    |   |
|   |   |  | : |

Application/Control Number: 10/599,585

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The following is an examiner's statement of reasons for indicating allowance of claim 21: The prior art by McKean et al., [Patent No. 6,009,615] discloses an electromagnetic operating mechanism including a magnet yoke [Fig. 1, 12], a permanent magnet [Fig. 1; 30], an armature [Fig. 1; 40], and electromagnetic coil device [Fig. 1; 60, 61]. However, McKean does not disclose that the method comprising the steps: A) upon application of the control voltage, resetting and initializing the control circuit and starting a charging of the charge storage device; B) subsequently sequentially briefly energizing an auxiliary tripping coil and a main tripping coil, and, if no current flow occurs through at least one of the auxiliary and main tripping coils, permanently disconnecting the control voltage; C) if a current flow occurs through each of the tripping coils, energizing a closing coil so as to move the armature to an attracted position, and subsequently de-energizing the closing coil; D) subsequently sequentially briefly energizing the auxiliary tripping coil and the main tripping coil without affecting the armature, and if no current flow occurs through the auxiliary tripping coil, discharging the charge storage device through the main tripping coil so as to move the armature to a dropped-out position, if no current flow occurs through the main tripping coil, energizing the auxiliary tripping coil so as to move the armature to the dropped-out position, and then permanently disconnecting the control voltage; E) if a current flow occurs through each of the tripping coils, re-starting step D; and F) upon removal of the control voltage, discharging the charge storage device through the main tripping coil so as to move the armature to the dropped-out position. This feature in combination with

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the rest of the claim limitations is not anticipated or rendered obvious by the prior art of record.

The following is an examiner's statement of reasons for indicating allowance of claim 33: The prior art by McKean et al. [Patent No. 6,009,615] disclose a circuit arrangement including a magnet yoke [Fig. 1, 12], at least one permanent magnet [Fig. 1, 30] disposed at a side of the magnet yoke, an armature [Fig. 1, 40], and an electromagnetic coil device [Fig. 1, 60, 61] surrounding the magnet yoke. However, McKean does not disclose a control circuit configured to be supplied with a rectified control voltage applied to its input and including a microcontroller, the control circuit including: a trippable permanent interrupting element configured to permanently disconnect the control voltage, the Control voltage being supplied via feed terminals; an auxiliary disabling branch connected to the feed terminals and including a series connection of an auxiliary tripping coil, an auxiliary disabling element, and a currentsensing device; an enabling branch connected downstream of the permanent interrupting element and, including a series connection of a closing coil and an enabling element; a main disabling branch connected downstream of the permanent interrupting element and including a series connection of a forward-biased decoupling diode, a main tripping coil and a main disabling element, the charge storage device being connected in parallel with the main tripping coil and the main disabling element; and a voltagesensing device connected in parallel with the charge storage device; wherein: a plurality of first connections connect an input side of the microcontroller to the current-sensing device, the voltage-sensing device, and to a control voltage controller an input side of

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the control voltage controller being connected to the feed terminals; a plurality of second connections connect an output side of the microcontroller to the auxiliary disabling element, the enabling element and the main disabling element and to the permanent interrupting element; the microcontroller is programmed so as to: be initialized upon application of the control voltage; be briefly close the auxiliary and main disabling elements in a predeterminable order without affecting the armature; activate the enabling element in a pulse-controlled manner so as to move the armature to an attracted position; subsequently deactivate the enabling element; when the control voltage is removed, close the main disabling element so as to move the armature to a dropped-out position; if a respective output signal of the current-sensing device or of the voltage- sensing device fails to appear, immediately close at least one of the main and auxiliary disabling element so as to move the armature to the dropped-out position, and subsequently trip the permanent interrupting element. This feature in combination with the rest of the claim limitations is not anticipated or rendered obvious by the prior art of record.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DHARTI H. PATEL whose telephone number is (571)272-8659. The examiner can normally be reached on 7:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2800, Ext. 36. The fax phone

Art Unit: 2836

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael J Sherry/ Supervisory Patent Examiner, Art Unit 2836 /Dharti H Patel/ Examiner, Art Unit 2836 09/24/2008

#### 

| * |   | Country Code-Number-Kind Code | MM-YYYY | Name          | Classification |
|---|---|-------------------------------|---------|---------------|----------------|
| * | Α | US-6,009,615                  | 01-2000 | McKean et al. | 29/602.1       |
|   | В | US-                           |         |               |                |
|   | C | US-                           |         |               |                |
|   | ۵ | US-                           | ·       |               |                |
|   | Е | US-                           |         |               |                |
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|   | L | US-                           |         |               |                |
|   | M | US-                           |         |               |                |
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#### FOREIGN PATENT DOCUMENTS

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Country | Name | Classification |
|---|---|--|-----------------|---------|------|----------------|
|   | N |  |                 |         |      | ,              |
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### **NON-PATENT DOCUMENTS**

| * |          | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
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|   | ×        | and a set heire furnished with this Office ratios (Co. NDED 5.767.05(s).)                 |

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

PTO/SB/08A/B (09-06)
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| Sub   | Substitute for form 1449/PTO |              |         | Complete if Known      |                        |  |  |
|-------|------------------------------|--------------|---------|------------------------|------------------------|--|--|
|       |                              |              |         | Application Number     | 10/599,585-Conf. #1137 |  |  |
| IN    | <b>IFORMATIC</b>             | ON DISC      | CLOSURE | Filing Date            | October 2, 2006        |  |  |
| S     | TATEMENT                     | BY AP        | PLICANT | First Named Inventor   | Berthold Gauxmann      |  |  |
|       |                              |              |         | Art Unit:              | N/A                    |  |  |
|       | (Use as many                 | sheets as ne | essary) | Examiner Name          | Not Yet Assigned       |  |  |
| Sheet | 1                            | of           | 1       | Attorney Docket Number | 20798/0204627-US0      |  |  |

|           |              |   | U.S. PA          | TENT DOCUMENTS              |   |  |
|-----------|--------------|---|------------------|-----------------------------|---|--|
| Examiner  | 0.11-        | Document Number                           | Publication Date | Name of Patentee or         | Pages, Columns, Lines, Where                    |  |
| Initials* | Cite<br>No.1 | Number-Kind Code <sup>2</sup> ( if known) | MM-DD-YYYY       | Applicant of Cited Document | Relevant Passages or Relevant<br>Figures Appear |  |
| /DP/      | AA*          | US-4,947,146                              | 08-07-1990       | Ichimura et al.             |   |  |
| 1         | AB*          | US-6,246,131                              | 06-12-2001       | Sheng et al.                |   |  |
|           | AC*          | US-5,214,560                              | 05-25-1993       | Jensen                      |   |  |
|           | AD*          | US-20050162796-A1                         | 07-28-2005       | Arenz et al.                |   |  |
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|-----------|------|---|---------------------|--------------------------------------|---|----------|
| Examiner  | Cite | Foreign Patent Document   | Publication<br>Date | Name of Palentee or                  | Pages, Columns, Lines,<br>Where Relevant Passages |          |
| initials* | No.1 | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) | MM-DD-YYYY          | Applicant of Cited Document          | or Relevant Figures Appear                        | דן       |
| /DP/      | BA   | DE-10146110   | 04-03-2003          | Nestler Wolfgang et al.              |   | 1        |
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|           | BF   | DE-3908319  | 09-20-1990          | Matsushita Electric Works Ltd et al. |   | 7        |
|           | BG   | DE-10133713   | 03-13-2003          | Moeller Gmbh                         |   | <b>V</b> |
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|           | BI   | EP-0376715  | 07-04-1990          | Isuzu Motors Ltd                     |   |          |
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|           | BK   | DE-20113647   | 10-18-2001          | Moeller GmbH                         |   | V        |
| /DP/      | BL   | WO-03077396   | 09-18-2003          | Moeller Gmbh et al.                  |   | V        |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO. Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1,98(a)(2)(iii)) because that application was filled after June 30, 2003 or is available in the IFW. \* Applicant's unique citation designation number (optional). \* See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspip.gov">www.uspip.gov</a> or MPEP 801.04. \* Senting the order of the 1980 of the 2980 of the 29

|                      |             | NON PATENT LITERATURE DOCUMENTS   |     |
|----------------------|-------------|---|-----|
| Exeminer<br>Initials | Cite<br>No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T2. |
|                      |             |   |     |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

'Applicant's unique citation designation number (optional). 'Applicant is to place a check mark here it English language Translation is attached.

| Examiner      |                                | Date       | 00/01/0000 |
|---------------|--------------------------------|------------|------------|
| Trivation to  | IDE-7: D-1-11 (00/04/0000)     | [          | 1          |
| I Signature 1 |                                | Considered | U3/24/2000 |
| 0.01.010.0    | 7211arti 1 atol/ (00/2 1/2000) |            | L          |

Docket No.: 20798/0204627-US0

(PATENT)

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|                             | atent Application of:<br>old Gauxmann et al.  |  |  |
|-----------------------------|---|--|--|
| Application No.: 10/599,585 |   | Confirmation No.: 1137   |  |
| Filed: October 2, 2006      |   | Art Unit: N/A  |  |
| For:                        | METHOD AND CIRCUIT ARRANGEMENT<br>FOR OPERATING A SOLENOID<br>ACTUATOR  | Examiner: Not Yet Assigned   |  |
|                             | INFORMATION DISCLOSURE  | STATEMENT (IDS)  |  |
| P.O. B                      | nissioner for Patents<br>ox 1450<br>ndria, VA 22313-1450  |  |  |
| Dear S                      | sir:  |  |  |
| be cor                      | This Information Disclosure Statement is sub<br>and it is requested that the information set forth in<br>sidered during the pendency of the above-identi-<br>g on the filing date of the above-identified appliation. | this statement and in the listed documents fied application, and any other application |  |
| (Checl                      | 1. This IDS should be considered, in accordance of the boxes A-D)   | nce with 37 C.F.R. 1.97, as it is filed:   |  |
|                             | A. within three months of the filing date of the above-identified national application of within three months of the entry into the national stage of the above identified national application                       |  |  |
| X                           | B. before the mailing date of a first office acti<br>action after filing a request for continued ex   | on on the merits, or a first office amination.   |  |
|                             | C. after (A) and (B) above, but before fir Applicants have made the necessary statem necessary fee in box "ii" below.   |  |  |

Application No.: 10/599,585 Docket No.: 20798/0204627-US0

| (check o   | one of the boxes "i" and "ii" below:)  |
|--|--|
| 1  | Counsel states that, upon information and belief, each item of information listed herein was (check one of boxes (a) or (b))   |
|  | (a) first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or  |
|  | (b) not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.     |
|  | A check for the fee set forth in 1. 17(p), presently believed to be \$180, is enclosed.  |
| D. after (A), (B) and (C) above, but before payment of the issue fee: Applicant petitions under 37 C.F.R. 1.97(d) for the consideration of this IDS. Under 37 CFR 1.17(p) a check in the amount of \$180.00 is enclosed. Counsel certifies that, upon information and belief, each item of information listed herein was |  |
| (check one of the boxes "a" and "b" below:)  |  |
|  | (a) first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or  |
|  | (b) was not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS. |

2. In accordance with 37 C.F.R. 1.98, this IDS includes a list (e.g., form PTO/SB/08) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. A copy of each document listed is attached, except as explained below.

(check boxes A, B and/or C and fill in blanks, if appropriate.)

Application No.: 10/599,585

Docket No.: 20798/0204627-US0

X A. Pursuant to the Notice issued by the United States Patent and Trademark Office dated July 11, 2003 waiving the requirements of 37 C.F.R. § 1.98(a)(2)(i), a copy/copies of the United States Patent on PTO/SB08 is/are not being submitted.

B. Document(s) \_\_\_\_\_\_ is (are) deemed substantially cumulative to document(s) \_\_\_\_\_\_, and, in accordance with 1.98(c), only a copy of each of the latter documents is enclosed.

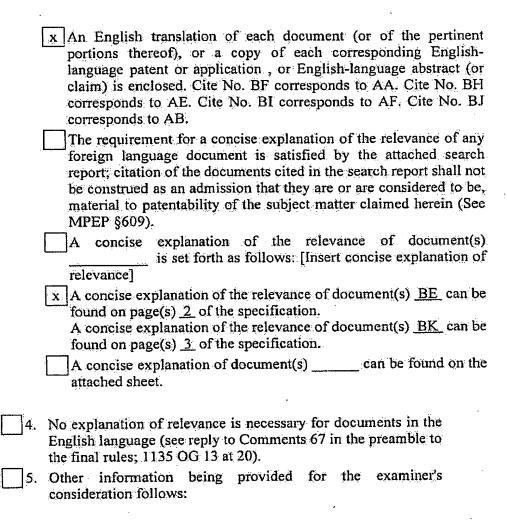
C. Certain documents were previously cited by or submitted to the Office in the following prior applications, which are relied upon under 35 U.S.C. 120:

### << INSERT SERIAL NO. & FILING DATE>>

Applicant identifies these documents by attaching hereto copies of the forms PTO-892, PTO-1449 and/or PTO/SB/08 from the files of the prior application(s) or a fresh PTO/SB/08 listing these documents, and request that they be considered and made of record in accordance with 1.98(d). Per 37 CFR 1.98(d), copies of these documents need not be filed in this application.

x 3. Cite Nos. <u>BA, BB, BD, BE, BF, BG, BJ, BK, BL</u> are not in the English language. In accordance with 1.98(c), Applicant states:

Application No.: 10/599,585 Docket No.: 20798/0204627-US0



6. In accordance with 37 C.F.R. 1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in §1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless other-wise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant reserves the right to prove that the date of publication is in fact different.

Early and favorable consideration is earnestly solicited.

Application No.: 10/599,585

Docket No.: 20798/0204627-US0

The Commissioner is authorized to charge any deficiency of up to \$300.00 or credit any excess in this fee to Deposit Account No. 04-0100.

Dated: 16 June 2007

Respectfully submitted,

Thomas P. Canty

Registration No.: 44,586 DARBY & DARBY P.C.

P.O. Box 5257

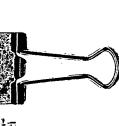
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